Conference Program 8th International Conference on Technology in Mathematics Teaching July 1 - 4, 2007, Hradec Králové, Czech Republic

Saturday, June 30 th		
17.00 - 19.00	Registration – building A	
Sunday, July 1 st		
8.30 - 17.00	Registration – building A	Hradec Králové
10.00 - 10.15	Opening address – Aula, building A	
10.15 - 11.15	Plenary session – Aula, building A	
11.30 - 13.00	Lunch	
13.00 - 14.20	Parallel sessions – building A	
14.30 - 15.00	Coffee break	
15.00 - 16.00	Poster session – building A	
16.00 - 17.00	Workshops – building A	
19.30 - 21.00	Concert and welcome drink	
Monday, July 2 nd		
9.00 - 10.20	Parallel sessions – building A	
10.30 - 11.00	Coffee break	Abbreviations:
11.00 - 12.45	Plenary sessions - Aula, building A	
13.00 - 14.30	Lunch	T1 - Integration of ICT into learning processes
14.30 - 15.50	Parallel sessions – building A	T2 - Technology in teacher education
16.00 - 16.30	Coffee break	T3 - Designing and using Dynamic Mathematics environments
17.00 - 19.00	Workshops – building B	T4 - Mathematics modeling with technology
Tuesday, July 3 rd		T5 - Communities of practice
9.00 - 10.20	Parallel sessions – building A	W – Workshop
10.30 - 11.00	Coffee break	
11.00 - 12.45	Plenary sessions – Aula, building A	AX, where $X \in \{1, 2, 3, 4, 5\}$ - room in the building A
13.00 - 14.00	Lunch	BY where $Y \in \{5, 11, 12, 16\}$ - room in the building B
14.00 - 19.00	Excursions	
20.00 - 23.00	Conference dinner	Building A: Hradecká 1227 (see the map)
Wednesday, July 4 th		Building B: nám. Svobody 331 (see the map)
9.00 - 11.00	Workshops – building B	
11.30 - 11.45	Closing session – Aula, building A	The conference organisers reserve the right to change the program
12.00 - 13.30	Lunch	should circumstances deem it necessary.

Sunday July 1st

10.00 - 10.15	Oper	ning address – Aula, Milková	á E.				
10.15 - 11.15		ary session – Aula, chair Slab					
	Frau	nholz Wolfgang: Getting mat	thema	atical concepts and learning proc	ofs by	y computer aided linear algeb	ra
11.30 - 13.00	Lunc	h					
13.00 - 14.20	Para	llel sessions – building A				(13.0	0 - 13.20 - 13.40 - 14.00 - 14.20
Room A1	T1	Room A2	T1	Room A3	T2	Room A5 T3	Room A4 T4
chair: Jones P.		chair: Hvorecký J.		chair: Brown S.		chair: Issakova M.	chair: Heck A.
Albano J., Desiderio M.		Tonisson E.		García-Campos M., Rojano, T	Г.	Gelis J. M., Lagrange J. B.	
Importance of semiotic		Branch Completeness in Sch		Computer Algebra Systems: A		The Casyopée project:	Using simulations on
representations: how CAS	s can	Mathematics and in Compute		teacher centered study on the		computer symbolic	MATLAB [®] to help crack
help		Algebra Systems		cognitive and didactic dimensio	ons.	computation for students'	difficult mathematics problems
						better access to algebraic	
						notation and rich	
						mathematics	
Tetlow L., Oldknow A.		Roberts L.F.		Habre S.		Bouhineau D. et al.	Wurnig O.
Innovative approaches usi		Integrating Handheld		The Role of Technology in the		Adding new Representations	Introduction of conics in form
ICT to support the teaching	ng and	Technology into Mathematic	cs	Writing of Mathematical Proofs	3	of Mathematical Objects to	11 with the help of GeoGebra.
learning of Advanced		Instruction				Aplusix	
Mathematics: ICTAM							
Narayan J., Schell R		Hvorecký J.		Brown S.		Wilson S.J.	Heck A.
Spreadsheet Learning		Making Mathematics Simple	e,	Using Technology to Improve		Dynamic Web Tools for	Modelling Intake and Clearance
Environment (SLE) in a		Attractive, and Realistic		Mathematics Methods Courses		Trigonometry	of Alcohol in Humans
Required Mathematics Co	ourse.						
Jones P., Lancaster D. L	/•					Issakova M.	
Introducing CAS in state-						Do First Year Students Know	7
mathematics examination						how to Solve Simple Linear	
the university entrance lev	vel: a					Equations? An Experiment	
brief case study						with T-algebra	

- 14.30 15.00 Coffee break
- 15.00 16.00 **Poster session** foyer, building A
- 16.00 17.00 Workshops building A

Room A2 W	Room A5	W
Lyublinskaya I.	Koreňová L., Hvorecký J.	
Making Connections: Technology Based Science Experiments for Teaching and	Enriching Education of Mathematics and S	Science by Using a Graphing Calculator
Learning Mathematics.	-	

19,30 - 21,00 Concert and welcome drink

Monday July 2nd - morning

9.00 - 10.20 Parallel sessions – building A (9.00 – 9.20 – 9.40 – 10.00 – 10.20)					
Room A1 T1	Room A2 T1	Room A3 T2	Room A5 T3	Room A4 T3	
chair: Quesada A. R.	chair: Bokhove Ch.	chair: Čihák M.	chair: Bouhineau D.	chair: Pražák P.	
Wojtuś R.	Robotti E., Chiappini G.	Lipeikiene J.	Oldknow A., Tetlow L.	Sojka P., Plch R.	
The role of computer in the	Teaching and learning concrete	Open Source CAS in	Using dynamic geometry	Technological Challenges of	
independent extracurricular	and theoretical arithmetic	Mathematical Education of	software to encourage 3D	Teaching Mathematics	
work of student.	through technology	Teachers	visualisation and modelling.	in a Blended Learning Environment	
Ratusiński T.	Ruiz-Fuentes N. et al.	Martinovic D.	Lepp D.	Miller C., Ehmann M.	
The parts of computer games	Incorporation of the ICT to the	Using Calculus-related	Study of Student Mistakes in	Teaching and learning mathematics	
in process of math's teaching	process of teaching Statistics	Secondary Web Resources in a	Solving Simplification	with dynamic worksheets	
	and Statistic Sampling in	Course for Pre-service	Problems on Paper and		
	Management and Public	Teachers	Possibility of these Mistakes in		
	Administration for		the T-algebra Environment		
	undergraduates				
Columba L.	Jiménez de la Rosa B.	McAnally M. et al.	Lozano M. D., Trigueros M.	Gravina M. A.	
Assessing and Helping More	Changes in Teaching and	Using Virtual Manipulatives in	Design and use of an	Drawing movement and insights for	
Students Achieve Success	Learning with the Integration	Mathematics for Preservice	interactive computer	the proof process	
with First in Math Online	of	Teachers	programme for the teaching		
Program	Information and		and learning of combinatorics		
	Communication Technologies				
Quesada A. R., Smith M.	Bokhove Ch. et al.	Beaudoin M.	Bouhineau D. et al.	Oldenburg R.	
On topics that technology	Towards an integrated learning	The Appropriation of	Helping Teachers Generate	The Algebraic Modeling of	
enables and are foundational to	environment for mathematics	Information and	Exercises with random	Geometric Constraints in FeliX	
calculus at the secondary level		Communication Technology	coefficients		
		by Pre-Service Teachers of			
		Mathematics and Oral			
		Learning			

10.30 - 11.00	Coffee break
11.00 - 12.45	Plenary sessions – Aula, chair Oldknow A.
	Laughbaum Edward: Teaching and Learning Algebra based on Neuroscience/Cognitive Science Research
	Yang Wei-Chi: Creative And Dynamic Contents Evolve When Technological Tools Advance
13.00 - 14.30	Lunch

Monday July 2nd - afternoon

14.30 - 15.50 Parallel sessi	ons – building A		(14.30 - 14.50 - 15.10 - 15.30 - 15.50)
Room A2 T1	Room A3 T2	Room A5 T3	Room A4 T5
chair: Lagrange J. B.	chair: Kašpar J.	chair: Gavalcová T.	chair: Taylor R.
Dębicka D.	Olkun S. et al.	Moravčík M., Lehotská D.	Clark-Wilson A., Knights C.
Developing of students' mathematical	Analyzing and Enhancing Geometric	Environment for symmetrical patterns	Classroom Use of Dynamic Geometry
competences	Transformation Skills of Elementary	creation	Software in the UK
by using mathematical software.	Education pre-Service Teachers within		
	an International Context		
Juskowiak E.	Wadoń K.	Pedemonte B., Chiappini G.	Milková E., Pozdílek M.
Graphing calculator as a tool for	Different kinds of understanding of the	ALNUSET: a new artefact for teaching	Multimedia applications – a helpful
monitoring student's work	concept of parameter	and learning algebra	support of the subject Discrete
			Mathematics
Stols G.	Kašpar J. Robová J.	Todd P.	Oldknow A., Taylor R.
Does the Technology Acceptance Model		Geometry Expressions – A Dynamic	Mathematics, science and technology
explain the use of technology for	IT in Mathematics Teaching	Symbolic Geometry Environment	teachers working collaboratively with
mathematics instruction?			ICT
Lagrange J. B., Ozdemir E.			Clark-Wilson A., Oldknow A.
Mathematics teachers using technology			Innovative multimedia approaches to
in the classroom:			mathematics education
the role of "emergent goals"			

16.00 - 16.30 Coffee break

17.00 - 19.00 Workshops – building B (17.00 - 18.00 - 19.00					
Room B5 W	Room B11 W	Room B12 W	Room B16 W		
Bokhove Ch. et al.	Čihák M.	Lyublinskaya I., Ryzhik V.	Hvorecký J., Koreňová L.		
Towards an integrated learning	Teaching probability at secondary	Interactive Geometry Labs – US	Using a Spreadsheet Tool of a Graphing		
environment for mathematics	schools using computers	Russian Approach	Calculator		
Sharp B.	Tonisson E. et al.	Eren S., Unver H.			
Connecting Mathematical Concepts to	Intelligent problem solving environment	Students' perceptions of graphing			
Real-world Application: Using Digital	T-algebra	calculator in high school math courses: a			
Cameras in Teacher Education Courses		case study in Turkey			

Tuesday July 3rd

9.00 - 10.20 Parallel sessions - building A (9.00 - 9.20 - 9.40 - 10.00 - 10						
Room A2 T1	Room A3 T3	Room A5 T3	Room A4 T5			
chair: Robutti O.	chair: McCabe M.	chair: Olivero F.	chair: Laughbaum E.			
Trigueros M., Sacristán A.I.	Melis E., Libbrecht P. et al.	Windsteiger W. et al.	Searcy M. E., Thomley J. E.			
Teachers' practice and students'	How ActiveMath Supports Moderate	CreaComp: Computer-Supported	Barriers to Interdisciplinary			
learning in the Mexican programme for	Constructivist Mathematics Teaching	Experiments	Computational Innovations in Education			
Teaching Mathematics with Technology		and Automated Proving in Learning and				
		Teaching Mathematics				
Ursini S. et al.	Christou C. et al.	Magajna Z.	Zinger V.			
Using technology in the mathematics	Developing an Active Learning	Computer Aided Learning of Proving in	Teaching Mathematics on-line: Alaskan			
class:	Environment for the Learning of	School Geometry	Experience			
how this affects students' achievement	Stereometry					
and attitudes						
Manizade A. G., Che M.	Mousoulides M. et al.	Olivero F.	Kizito R. D., Wessels D. et al.			
Creating E-portfolio to Collect and	Mathematical Modelling Using	Static and dynamic statements in the	Instructional design for teaching			
Present the Evidence of Preservice	Technology in Elementary School	proving process: focusing on change	introductory Calculus to first year			
Teachers' Content Knowledge and			undergraduate students within a			
Pedagogical Content Knowledge			technology-enhanced distance learning			
Growth at the Secondary Level			environment at the University of South			
			Africa			
Robutti O.	McCabe M.		Dougherty B. J., Hobbs M.			
Infinity at primary and secondary	Reusable Assessment Objects in		The Effects of the TI-Navigator System			
school: signs and meanings	Mathematics Teaching		on Student Achievement and Attitude in Algebra			

10.30 - 11.00	Coffee break
11.00 - 12.45	Plenary sessions – Aula, chair Gavalcová T.
	Butler Douglas: What can technology add to the mathematics classroom?
	Kučera Luděk: Algovision or how to animate algorithms
13.00 - 14.00	Lunch
14.00 - 19.00	Excursions
20.00 -	Conference dinner

Wednesday July 4th

9.00 - 11.00 Workshops – building B (9.00 - 10.00 - 11.0						
Room B5 W	Room B11 W	Room B12	W	Room B10 W		
Foley G.D. Using Handheld Technology and	O'Neal J., Browning Ch. Preparing Teacher Candidates to Teach	Mackrell K. Advanced Techniques in Interactiv	ve	Butler D. Autograph: a teacher-centred approach		
Genuine Data to Enhance the Preparation for Calculus	Mathematics Using Technology: Creating a Classroom Network	Geometry		to dynamic classroom software		
Moskowitz S. Calculators: A Tool to Develop Number Sense for Pre-Service Elementary Teachers	Gelis J. M., Lagrange J. B. The Casyopée project: computer symbolic computation for students' better access to algebraic notation and rich mathematics	Moss M. Project Interactivate Applets in Mathematics Teacher Education		Butler D. – repeated session Autograph: a teacher-centred approach to dynamic classroom software		

11.30 - 11.45 12.00 - 13.30 Closing session – Aula, Milková E.

Lunch